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SUMMARY:

1. The number of primary stations for domestic broadcasting is estimated as 160. They broadcast approximately 900 hours daily, in at least 26 languages.

2. The number of transmitters for foreign broadcasting is estimated as 50, of which 33 are short-wave. They broadcast approximately 88 hours daily, in 41 languages. Tables on specific transmitters and languages are presented herewith.

A. SOVIET INTERNAL BROADCASTING

1. Primary Stations: The following are the estimated number of Soviet primary broadcasting stations, the word "primary" meaning stations which originate programs and disseminate them on the air via their own transmitter or transmitters:

Long Wave	—	45
Medium Wave	—	65
Short Wave	—	50

The total number of primary broadcasting stations in the Soviet Union is, therefore, estimated to be 160.

NOTE: A small additional number of short wave transmitters is known to exist but cannot be accurately estimated because of diversion to function as jamming transmitters rather than broadcasting transmitters. A rough estimate would be perhaps ten.

2. Relay Stations: Soviet broadcast relay stations fall into two categories which merit counting as distinct groups:

a. Transmitters radiating programs on the air which originate with a primary broadcasting station, usually Moscow. The estimated number of these is ten. A larger number operating on such low power as to defy foreign observation might exist.

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b. Audio amplifier units which function as central distribution points to numerous loud speaker and public address speakers through direct wired connection. No statistics or basis for accurate estimation of the total number of these units is available. Such stations usually serve on an Oblast-wide, Rayon-wide, Municipal or Collective basis, and the goal of the Soviet Union in this respect is total "radiofication".

3. Use of Relay Stations for Original Programs: The number of the above relay stations which can be used for original program transmission cannot be estimated. However, just as it is the goal, and in fact nearly true, that every Soviet Republic, Autonomous Republic and Krai shall have its own primary station, so is it the goal, which it is estimated as being about 90 per cent attained, that every Oblast capital shall have its own relay station capable of original program transmission. Monitored observation of regional broadcasts through the Soviet Union has not indicated existence of any program transmission originating with a relay station in an administrative subdivision smaller than an Oblast for broadcasting over the air. It has been inferred, however, from various Soviet statements that at least some relay stations which may serve a very local area, as a municipality or possibly even a collective farm or factory, are capable of originating programs for distribution over the local wired network.

4. Hours per Day: Statistics compiled from observation of 125 of the 160 primary transmitters indicate an aggregate program time just slightly over 700 hours per day. Extrapolated for 160 transmitters the total number of hours per day of programming in the Soviet Union for domestic consumption thus is estimated to be approximately 900 hours. This does not take into account any programming broadcast over wired networks from studios at lower than the Oblast level, for which absolutely no estimation can be made. This total figure averages about 12 hours per day per station. In terms of transmitters, since some stations consist of more than one transmitter with simultaneous or separate programming, this total averages a little less than 6 hours per day per transmitter. Individual cases vary considerably, ranging from a few hours per day to as high as 18 or 22 hours per day.

5. Languages: Observation of more than 80 per cent of Soviet primary regional broadcasting stations and Oblast relay stations, although in some cases not over the complete broadcasting day, has thus far revealed only 26 domestic languages, including Russian. Since Soviet claims run in the vicinity of 50 additional languages, it is highly probable that if the claims are true the majority of minority languages are broadcast only over wired networks to very limited audiences.

B. SOVIET FOREIGN BROADCASTING

1. Transmitters: The total number of Soviet transmitters used for foreign broadcasting is estimated to be 50. This figure breaks down into 33 short wave transmitters of which 20 are at Moscow, 13 medium wave transmitters and 4 long wave transmitters, none of which is at Moscow but scattered around the USSR periphery. The location, power, target area and hours per day for each transmitter are given in Table I.

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TABLE I

Transmitters Used in Soviet International Broadcasting

<u>Location</u>	<u>Wave-Band</u>	<u>Estimated Power Output</u>	<u>Target Area (Beam)</u>	<u>Hours Per Day On The Air</u>
Ashkhabad	S	25 KW	South & Southeast Asia	1 hr. 45 min.
Baku	S	5 KW	Iran and Turkey	3 hr. 40 min.
Baku (Clandestine)	M	10 KW	Iran & Middle East	3 hr. 5 min.
Baku	L	35 KW	Iran	1 hr. 0 min.
Birobidzhan	M	5 KW	Manchuria	2 hr. 30 min.
Chita	L	20 KW	Mongolia	1 hr. 15 min.
Khabarovsk	S	50 KW	Korea	0 hr. 45 min.
"	S	15 KW	Korea	0 hr. 45 min.
"	M	50 KW	North Asia	10 hr. 0 min.
"	M	40 KW	North Asia	3 hr. 15 min.
Kiev	S	50 KW	W. Europe & N. Amer.	12 hr. 0 min.
Kishinev	M	50 KW	Balkans	9 hr. 30 min.
Komsomolsk	S	50 KW	N. Amer. & Far East	14 hr. 30 min.
"	S	50 KW	Far East	10 hr. 0 min.
"	M	50 KW	Far East	10 hr. 0 min.
"	M	10 KW	Japan	1 hr. 0 min.
"	M	15 KW	Japan	2 hr. 30 min.
Leningrad	S	50 KW	North Asia	10 hr. 0 min.
"	M	50 KW	W. Europe & L. Amer.	12 hr. 0 min.
Lvov	M	100 KW	Scandinavia	4 hr. 15 min.
Minsk	M	50 KW	Southeast Europe	7 hr. 0 min.
Nikolaevsk-Amur	L	50 KW	Central Europe	3 hr. 0 min.
Petropavlovsk-Kamchatka	S	10 KW	Korea	0 hr. 45 min.
Riga	S	50 KW	N. Amer. & Far East	16 hr. 40 min.
Tallinn	M	50 KW	Scandinavia, N. Europe	4 hr. 10 min.
Tashkent	S	25 KW	Great Britain & Scandinavia	1 hr. 30 min.
Vladivostok	M	100 KW	Central & South Asia	3 hr. 0 min.
"	L	25 KW	North Asia	10 hr. 0 min.
Yerevan	S	7 KW	North Asia	7 hr. 0 min.
Moscow	S (#1)		N. East & Medit.	0 hr. 30 min. (?)
"	S (#2)			
"	S (#3)			
"	S (#4)			
"	S (#5)			
"	S (#6)			
"	S (#7)			
"	S (#8)			
"	S (#9)			
"	S (#10)			
"	S (#11)			
"	S (#12)			
"	S (#13)			
"	S (#14)			
"	S (#15)			
"	S (#16)			
"	S (#17)			
Moscow (Clandestine)	S (#18)			
"	"			
"	S (#19)			
"	S (#20)			

Interchangeable within certain limitations of transmitter design, power, antenna facilities available, and conditions imposed by other services in which same transmitter may be used.

Transmitters interchangeable within certain limitations; estimated power outputs range 15 to 100 KW.

Variable world-wide.

17 hr. 0 min.
16 hr. 30 min.
14 hr. 30 min.
13 hr. 30 min.
12 hr. 45 min.
11 hr. 45 min.
11 hr. 30 min.
10 hr. 40 min.
10 hr. 30 min.
10 hr. 30 min.
10 hr. 15 min.
9 hr. 30 min.
9 hr. 15 min.
8 hr. 45 min.
8 hr. 45 min.
8 hr. 30 min.
8 hr. 15 min.
5 hr. 30 min.
5 hr. 30 min.
5 hr. 30 min.

NOTE: Distributions for Moscow are estimates, but approximately correct, based on detailed analysis of total effort by Moscow. All figures for transmitters in other locations are relatively firm.

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2. Target Regions: The total effort in terms of program hours per day per language to the various target regions is presented in Table II.

TABLE II
Target Areas of Soviet Broadcasting Effort

	<u>Average Number of Transmitters Used</u>	<u>Total Time of Daily Effort</u>
A. To Soviet Sphere		
Albanian	3	0 hr. 30 min.
Bulgarian	3	1 hr. 30 min.
Czech	4	1 hr. 40 min.
Hungarian	3	1 hr. 40 min.
Polish	3	2 hr. 5 min.
Rumanian	4	2 hr. 5 min.
Slovak	4	1 hr. 0 min.
Chinese (Mandarin)	11	3 hr. 0 min.
Mongolian	6	1 hr. 15 min.
Uighur (to Sinkiang)	1	1 hr. 0 min.
Korean (in both spheres)	10	4 hr. 15 min.
German (in both spheres)	5	5 hr. 5 min.
Austrian (in both spheres)	3	<u>1 hr. 30 min.</u>
TOTAL		26 hr. 41 min.
B. To Non-Soviet Sphere		
Arabic	4	1 hr. 0 min.
Armenian	1	0 hr. 30 min.
Azerbaijani (clandestine)	1	1 hr. 0 min.
Basque	4	<u>weekly 15 min.</u>
Bengali	5	0 hr. 30 min.
Catalan	4	<u>weekly 15 min.</u>
Danish	3	0 hr. 45 min.
Dutch	2	1 hr. 0 min.
English (to USA)	8	4 hr. 40 min.
English (to UK)	5	3 hr. 30 min.
English (to SE Asia)	5	1 hr. 30 min.
Finnish	2	2 hr. 0 min.
French	4	3 hr. 10 min.
Greek	4	1 hr. 30 min.
Hindustani	4	0 hr. 15 min.
Indonesian Malay	4	0 hr. 30 min.
Italian	4	3 hr. 30 min.
Japanese	9	3 hr. 0 min.
Kurdish (clandestine)	1	1 hr. 0 min.
Latvian (to Latvians abroad)	1	0 hr. 25 min.
Macedonian	4	1 hr. 30 min.
Norwegian	3	1 hr. 15 min.
Persian	6	4 hr. 45 min.
Persian (clandestine)	1	1 hr. 0 min.
Portuguese (to Brazil)	6	0 hr. 30 min.

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TABLE II (Continued)

B. <u>To Non-Soviet Sphere</u> (cont'd)	<u>Average Number of Transmitters Used</u>	<u>Total Time of Daily Effect</u>
Portuguese (to Portugal)	3	0 hr. 30 min.
Serb/Croat	4	4 hr. 25 min.
Slovene	4	2 hr. 0 min.
Spanish (to Spain)	4	2 hr. 0 min.
Spanish (to Spain)(clandestine)	5	5 hr. 30 min.
Spanish (to Latin America)	6	2 hr. 0 min.
Swedish	3	1 hr. 30 min.
Turkish	2	2 hr. 35 min.
Ukrainian (to Ukrainians abroad)	1	2 hr. 0 min.
TOTAL		61 hr. 19 min.

The Soviet radio broadcasts to listeners in foreign countries in seven languages which are used neither by the Voice of America nor the BBC. These languages and the number of hours per day broadcast time devoted to each are as follows:

Armenian (from Yerevan)	30 minutes daily
Basque (from Moscow)	15 minutes <u>weekly</u>
Catalan (from Moscow)	15 minutes <u>weekly</u>
Latvian (from Riga)	23 minutes daily (except on Tuesday when 43 minutes)
Macedonian (from Moscow)	90 minutes daily
Mongolian (from Moscow)	75 minutes daily
Uighur (from Tashkent to Sinkiang)	60 minutes daily

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